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TOP SECRET

PHOTOGRAPHIC INTERPRETATION REPORT

SCALEBOARD
SSM LAUNCH FACILITIES AT SOVIET ROCKET FORCES INSTALLATIONS

25X1

NOVEMBER 1967

COPY 116

13 PAGES

25X1

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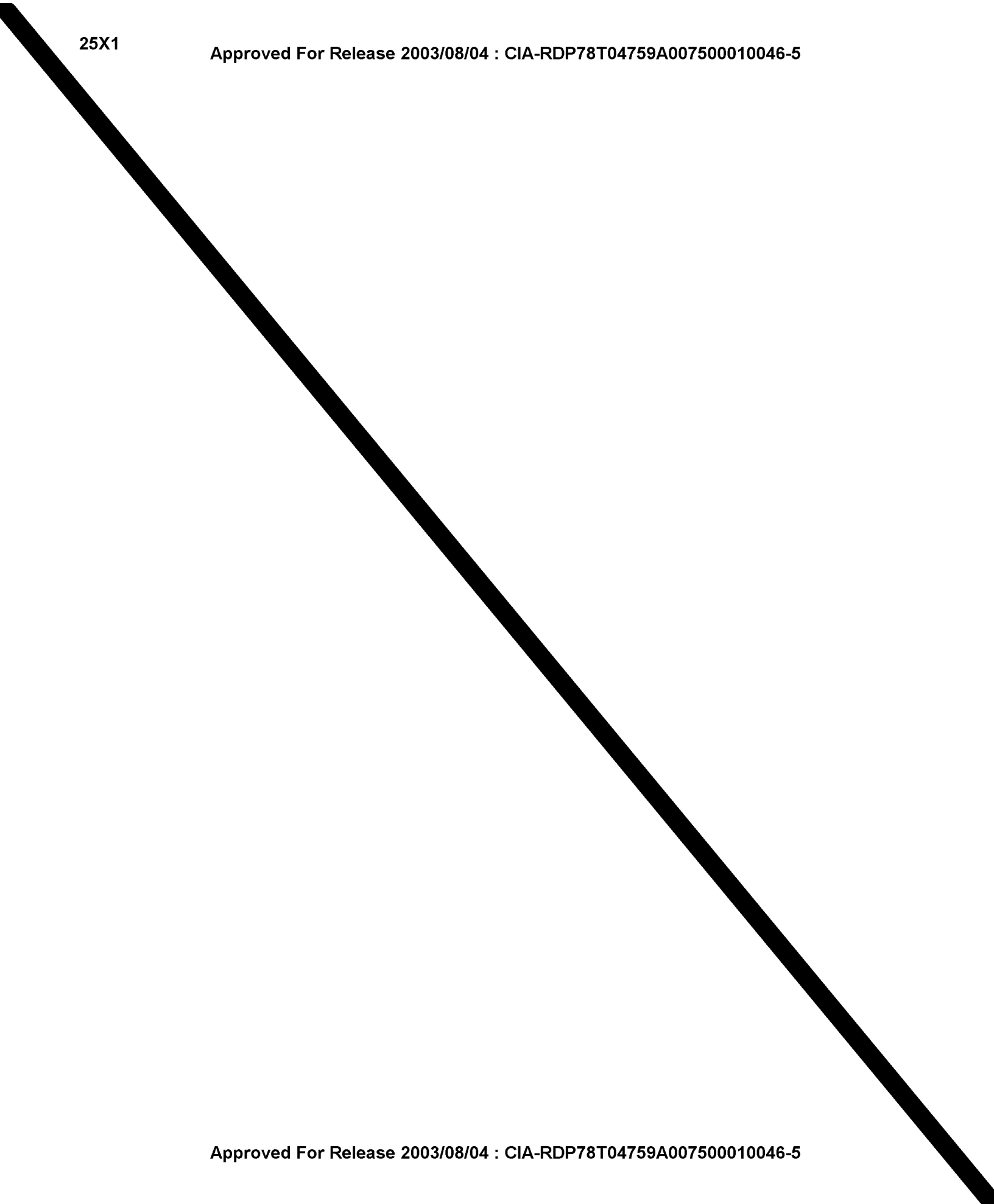

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PHOTOGRAPHIC INTERPRETATION REPORT

SCALEBOARD SSM LAUNCH FACILITIES AT SOVIET ROCKET FORCES INSTALLATIONS

NOVEMBER 1967

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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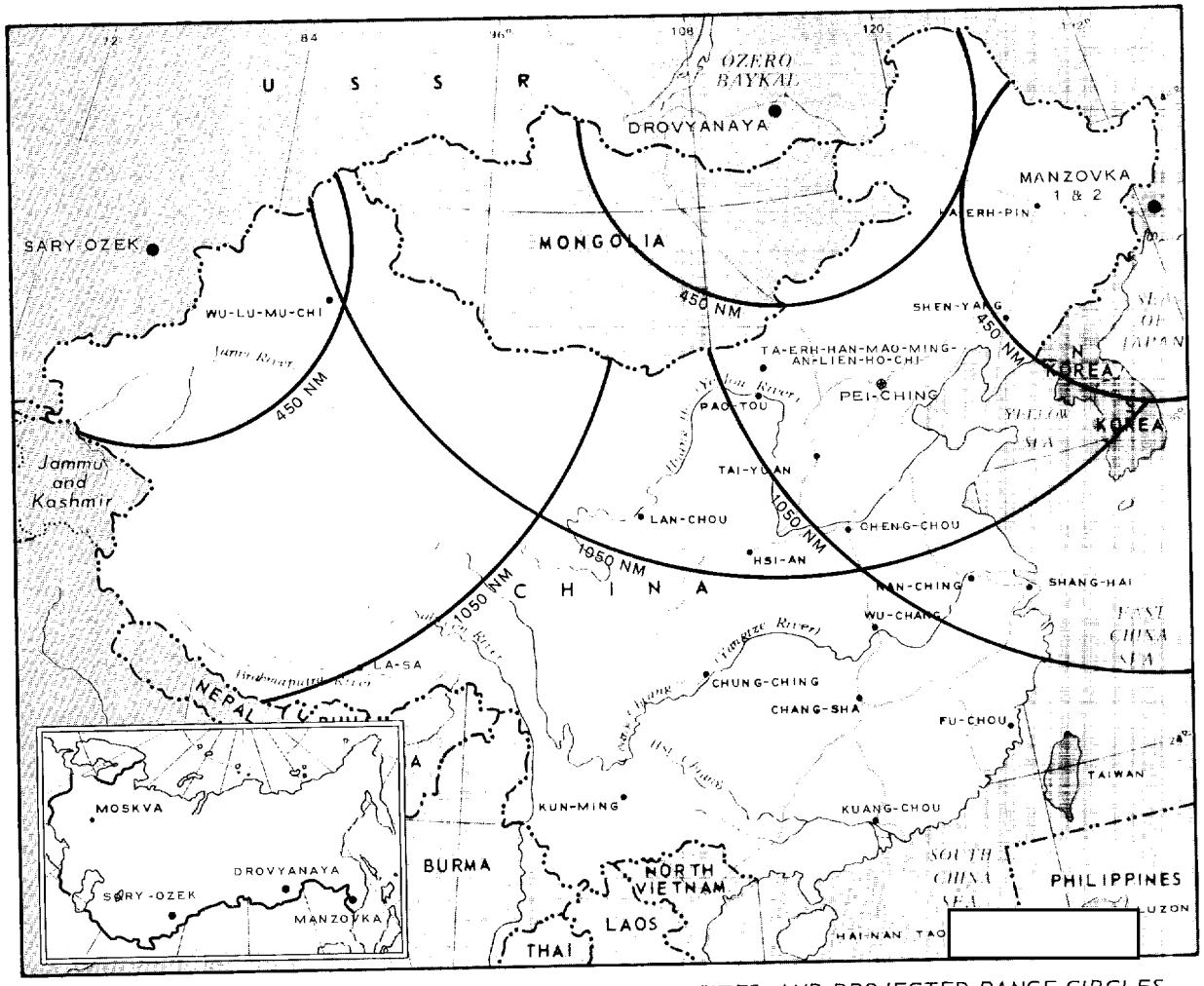

FIGURE 1. LOCATIONS OF SCALEBOARD SSM LAUNCH SITES, AND PROJECTED RANGE CIRCLES.

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SUMMARY

This report presents a summary of intelligence information currently available on the 4 known SSM launch sites for the SCALEBOARD missile system. The 4 sites have been identified at Soviet Rocket Forces installations near the Sino-Soviet border, i.e., the Sary-Ozek IRBM Complex, the Kremovo MRBM Complex (Manzovka 1 and Manzovka 2), and the Drovyanaya ICBM Complex. The sites were all first observed in [redacted] and can be negated on photography [redacted] Locations of the sites, and 450-nm and 1050-nm range circles from the sites are shown in Figure 1.

Each site contains 9 launch pads (or, at the former Manzovka Fixed Field Launch Site, 9 locations suitable for pads) in a roughly circular arrangement. The sites at the Sary-Ozek IRBM Complex and the Drovyanaya ICBM Complex each contain 2 adjacent vehicle sheds. To date, no prototype site has been identified at any of the Soviet test centers.

The SCALEBOARD, a wheeled TEL with missile pod, was first displayed publicly in the 7 November 1967 Moscow parade (Figure 2). The TEL appears to be a modification of that previously displayed with the SS-1C (SCUD-B) missile. At least 6 SCALEBOARDS were shown in the Moscow parade. Mensuration derived from the parade SCALEBOARDS is presented in Figure 3; a Soviet newspaper photo 1/of 2 SCALEBOARDS with missile pods partially erected is shown in Figure 4.

SARY-OZEK IRBM COMPLEX

The SCALEBOARD site at the Sary-Ozek IRBM Complex (Figure 5) is located at 44-29N 077-57E, [redacted] It can be negated on photography of [redacted] and was first observed in [redacted]

The site is generally circular, with a maximum diameter of approximately 850 feet (Figure 6). Nine pads, none hard surfaced, are placed approximately 220 feet apart inboard of a concrete circumferential road. Three positioning, or index, points are seen on each pad. These 3 points form a "vee" pattern (Inset, Figure 6), with the apex approximately centered in the launch pad. These "vees" have the same orientation on all pads. An imaginary line through the apex of the "vee" is on an approximate azimuth of 80°. On the southwest side of the site, and connected to it by 2 concrete and 1 dirt road, there are a vehicle hardstand and 2 vehicle sheds which measure [redacted]

[redacted]

The construction of the launch site appears rather unusual in that considerable fill was utilized to build up the circumferential road, the pads, and the vehicle hardstands to a common level; all of which are above the original ground level. An additional, or tenth position, was also constructed in the center of the site. This position, or pad, is only approximately 90 feet wide as opposed to the approximate 150-foot width of the launch pads. Open trenches, possibly for cable lines, extended from this central position toward the pads. Each of these lines then divided to serve 3 launch pads. In addition to the construction of this site, other activity was noted in the support area. At the southwest end of the support area the following items were noted on

[redacted]

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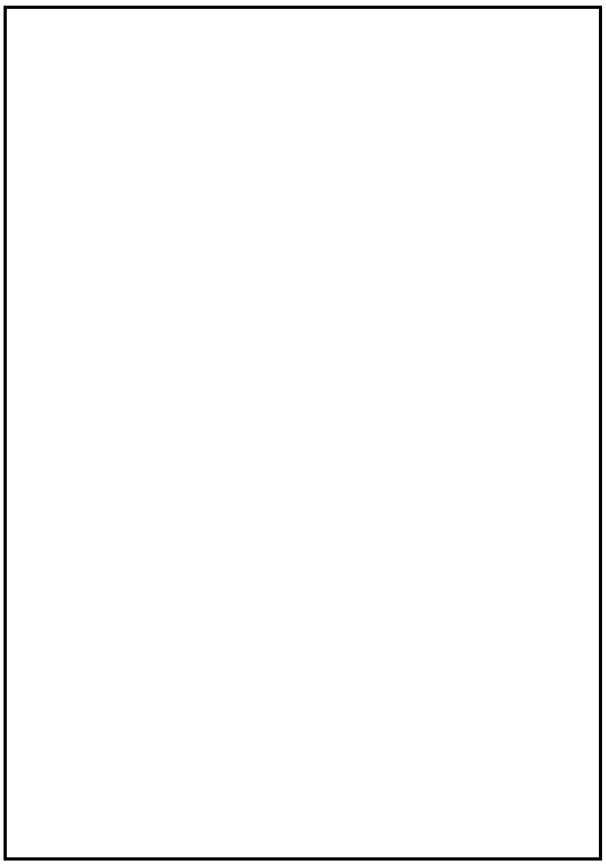
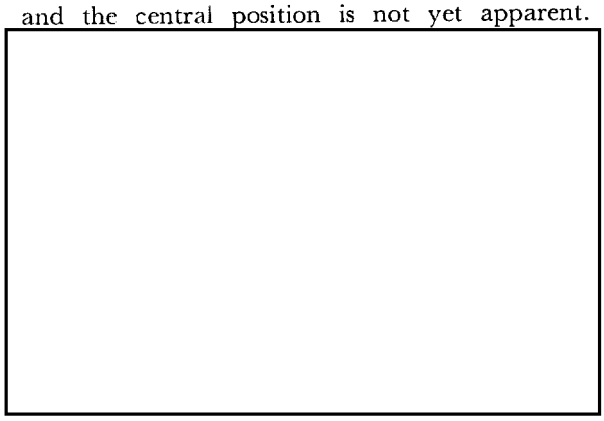


KREMOVO MRBM COMPLEX

Two SCALEBOARD launch sites are located at the Kremovo MRBM Complex. One is adjacent to the Manzovka SRF Headquarters at 44-11N 132-31E and the other is approximately 2.0 nm east-northeast, superimposed over the former Manzovka MRBM Fixed Field Site at 44-12N 132-34E. These sites were also 25X1D first observed in 25X1D and both can be negated on coverage of 25X1D

The site at the Manzovka SRF Headquarters, Manzovka 1 (Figure 7), is very similar in configuration to the Sary-Ozek and Drovyanaya sites, with a circular road, 9 pads inboard of the road, and a smaller central position. On the latest usable coverage of 25X1D the vehicle sheds visible at Sary-Ozek and Drovyanaya were not identified at the Manzovka 1 site, although some existing structures in the area may be usable. No large scale coverage of this site is available. 25X1D

The other site at Manzovka, Manzovka 2 (Figure 8), has been constructed over the former MRBM fixed field launch site, approximately 2.0 nm from the SRF Headquarters. This site is not as regular in configuration as the Manzovka 1 site; no outer loop road is present; and the central position is not yet apparent.



DROVYANAYA ICBM COMPLEX

The SCALEBOARD launch site at the Drovyanaya ICBM Complex is located in the complex support facility, 51-33N 113-01E (Figure 9). This site also contains a generally circular loop road, with 9 launch pads inboard of the road. A tenth, central, position is also present at this site, as are 2 vehicle sheds, approximately fronting on a vehicle hardstand which is connected to the launch site by at least 2 roads. 25X1D

No detailed analysis of this site can be made because of a lack of large scale coverage subsequent to when the site was in an early stage of construction. 25X1D

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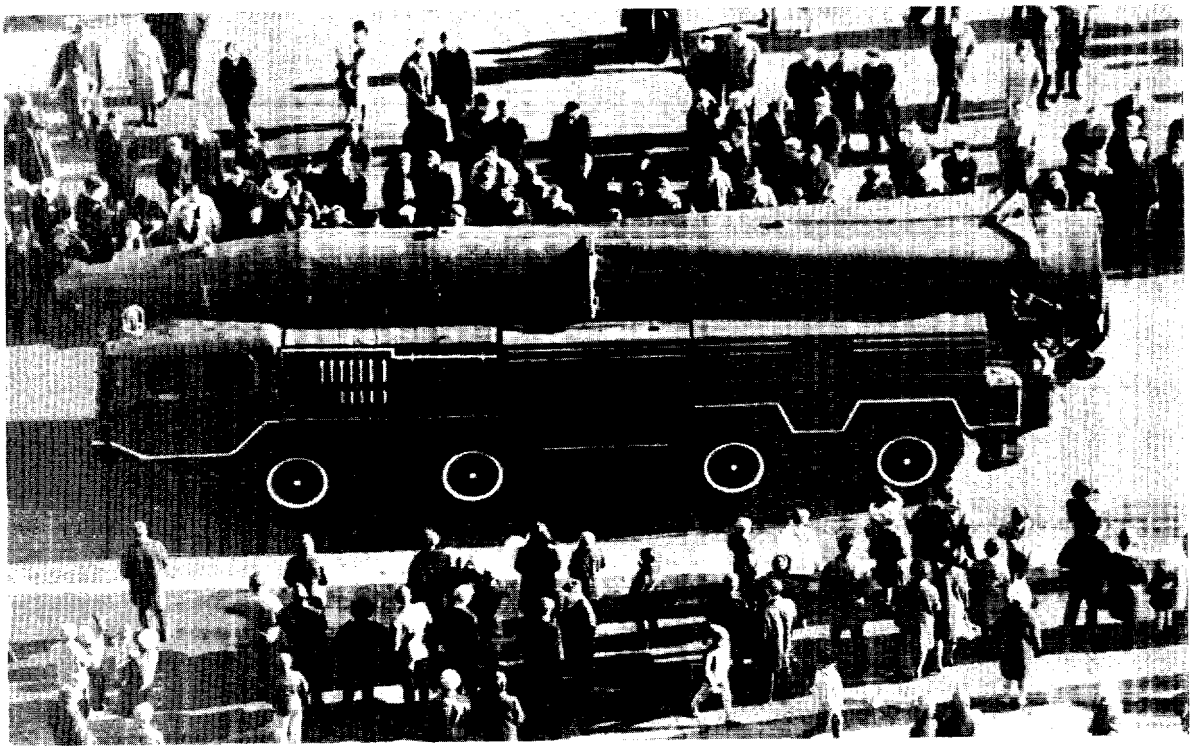

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FIGURE 2. SCALEBOARDS, MOSCOW PARADE, 7 NOVEMBER 1967.

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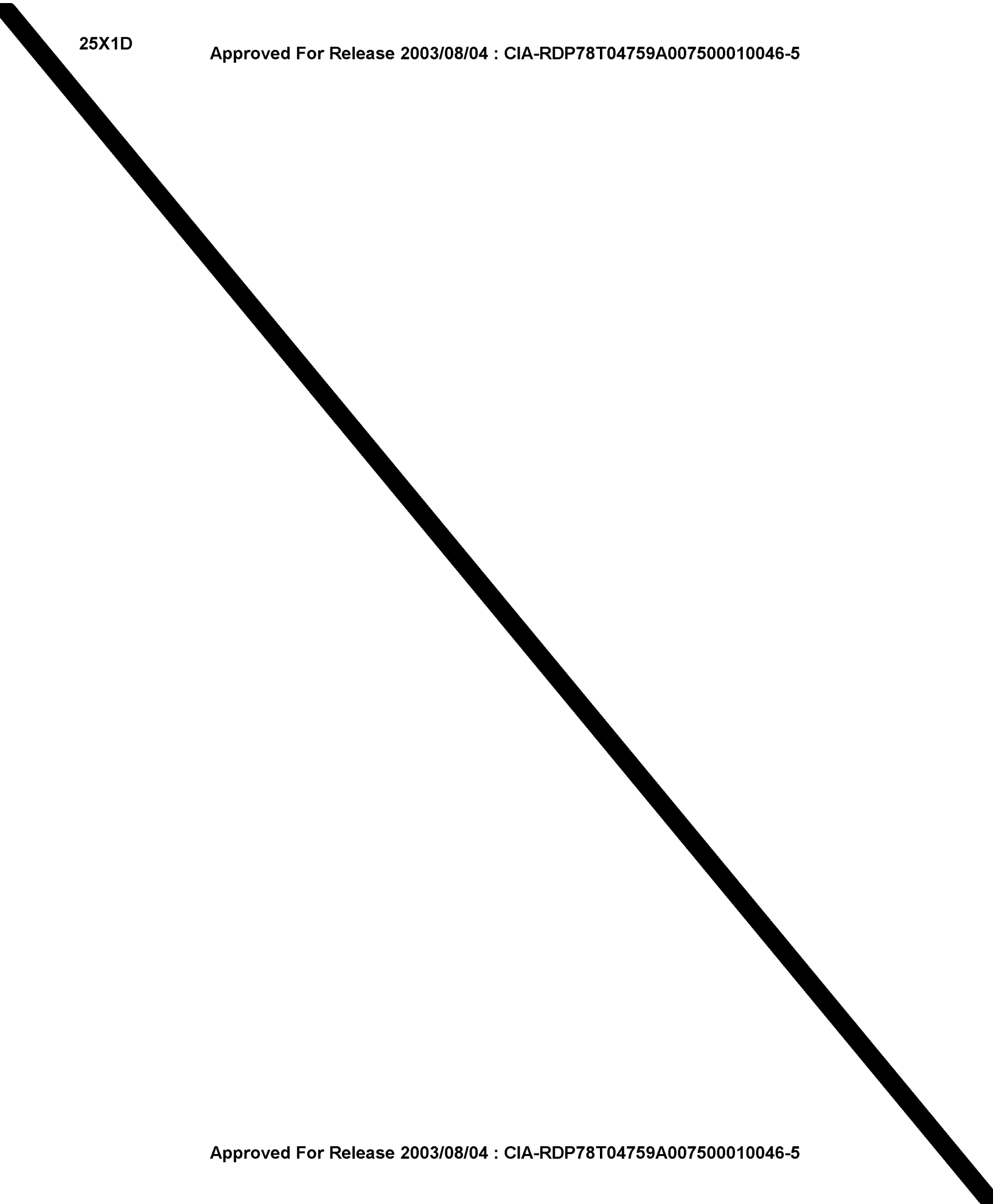

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CPYRGHT

FIGURE 4. SCALEBOARDS, SOVIET NEWSPAPER PHOTO

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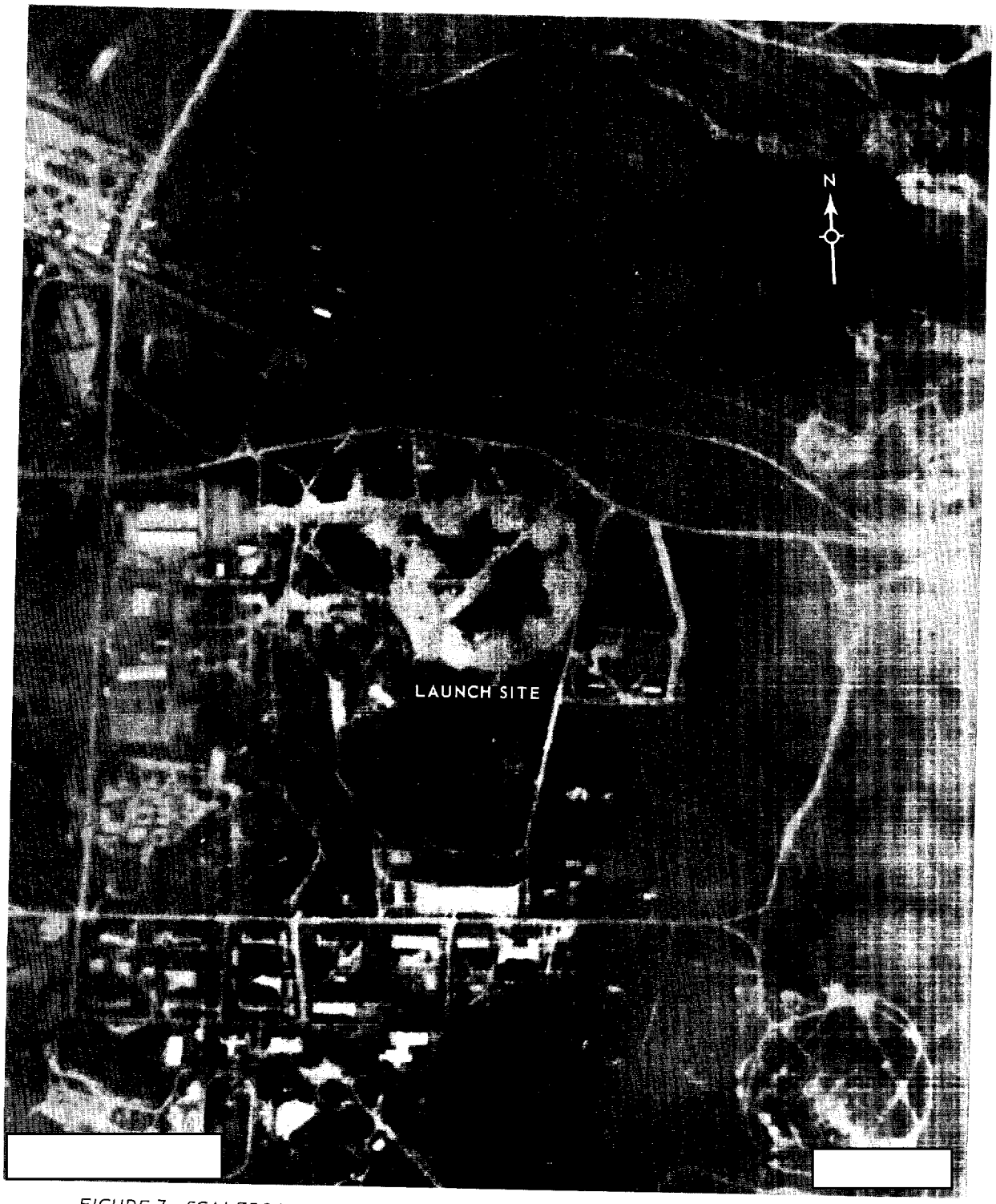

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FIGURE 7. SCALEBOARD SSM LAUNCH SITE, MANZOVKA 1, KREMOVO MRBM COMPLEX.

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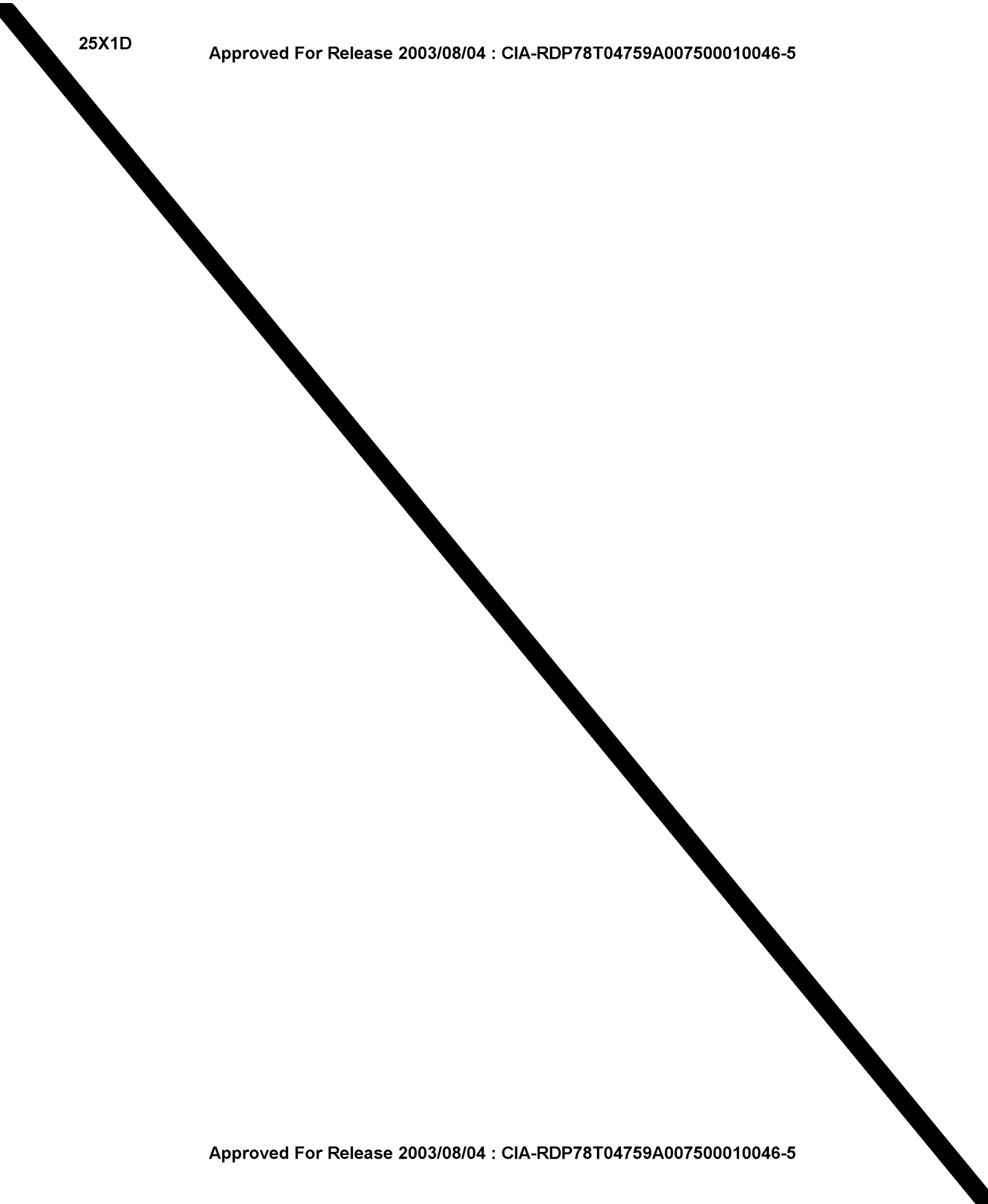

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FIGURE 9. SCALEBOARD SSM LAUNCH SITE, DROVYANAYA ICBM COMPLEX.

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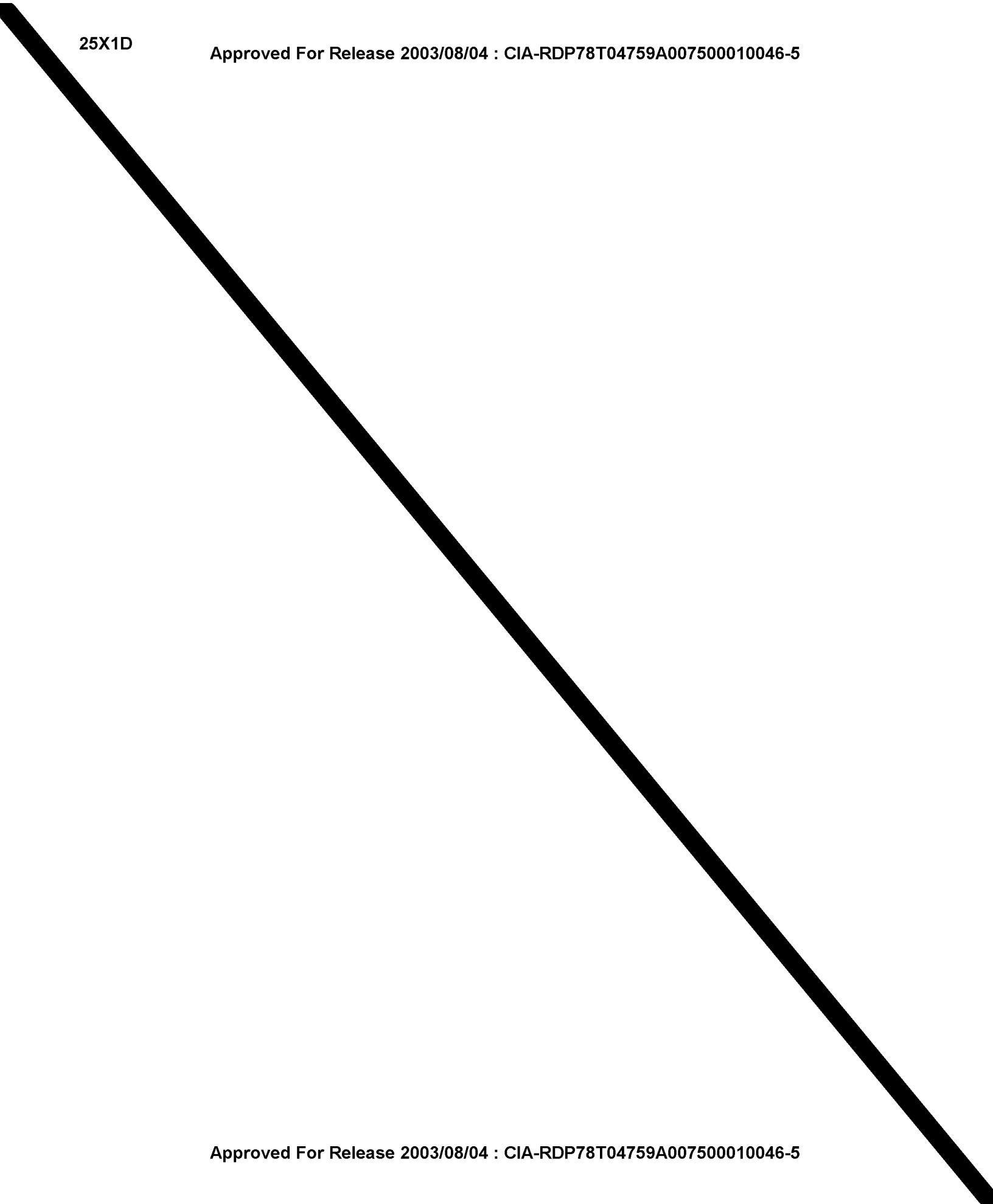

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